

Work Order ID 130430***130430***

Page 1

Wednesday, March 11, 2015 9:14:31 AM

Item ID: D4857-044 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Wiper Deflector Assembly, RH
Start Date: 3/27/2015 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 3/27/2015 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: CL Date: 15/03/11 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4857	E								

110 0.00
110 4 FF MAY 20 2015
Small Fab Memo 0.00
Small Fab Drill holes for D4857-4 as per dwg using DT10049

120 QC5- Inspect part completeness to step on W/O 0.00
120 (4) DAS 38 9-89
QC Memo 0.00 MAY 21 2015
Quality Control

130 0.00
130 4 DAS 41 9-89
HandFinish Memo 0.00 15-5-22
Hand Finishing Touch up holes with primer as per dwg
SEE NOTE 4 ON SHEET 6 FOR PRIMER
A/R PRIMER BATCH: 131277

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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130430

Page 2

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 3/27/2015 **Start Qty:** 4.00 ***4***

Cust Item ID:

Required Date: 3/27/2015 **Req'd Qty:** 4.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

**Insp.
Stamp**

0.00

140

QC

Memo

0.00

Quality Control

38
38
38
MAY 23 2015

0.00

150

Small Fab

Memo

0.00

Small Fab

BOND GASKET AS PER DWG

USING DOW CORNING 736 ADHESIVE BATCH:

20
M13184

MAY 25 2015
0 - 2015

QC5- Inspect part completeness to step on W/O

0,00

160

QC

Memo

0.00

Quality Control

**DAS
05
9-89**

15 05 27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Wednesday, March 11, 2015 9:14:31 AM

130430

Page 3

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 3/27/2015 **Start Qty:** 4.00 ***4***

Cust Item ID:

Required Date: 3/27/2015 **Req'd Qty:** 4.00 ***1***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Operation Description

170

Identify as per dwg & Stock Location:

sch 06

Set Up/ Run Hours

0.00

Tool ID**Tool #**

**Plan
Code**

Accept Qty

Reject
QtyReject
Number

**Insp.
Stamp**

170

Packaging

Memo

0.00

Packaging

MAY 28 2015

180

QC21- Final Inspection - Work Order Release

0.00

180

QC

Memo

0.00

Quality Control

MLJ MAY 28 2015

MLJ MAY 28 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Wednesday, March 11, 2015 9:14:30 AM

Page 1

Work Order ID: 130430

130430

Parent Item: D4857-044

D4857-044

Parent Item Name: Wiper Deflector Assembly, RH

Start Date: 3/27/2015

Required Date: 3/27/2015

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 14.05.21 REV.PD10 DD VERF:JLM IPP
REV:B 14.06.17 DWG REV.E DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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D4857-M		Manufactured	No				Each	5.0000		4			
										**	FF MAY 20 2015		
D4857-M													
Wiper Deflector													

Location Loc Qty Loc Code

cck065

5

125039

5

D5117-5		Manufactured	No				Each	0.0000		4			
										**	FF MAY 25 2015		
D5117-5													
Gasket													

B124959

D5117-7		Manufactured	No				Each	0.0000		4			
										**	FF MAY 25 2015		
D5117-7													
Gasket													

B125047

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

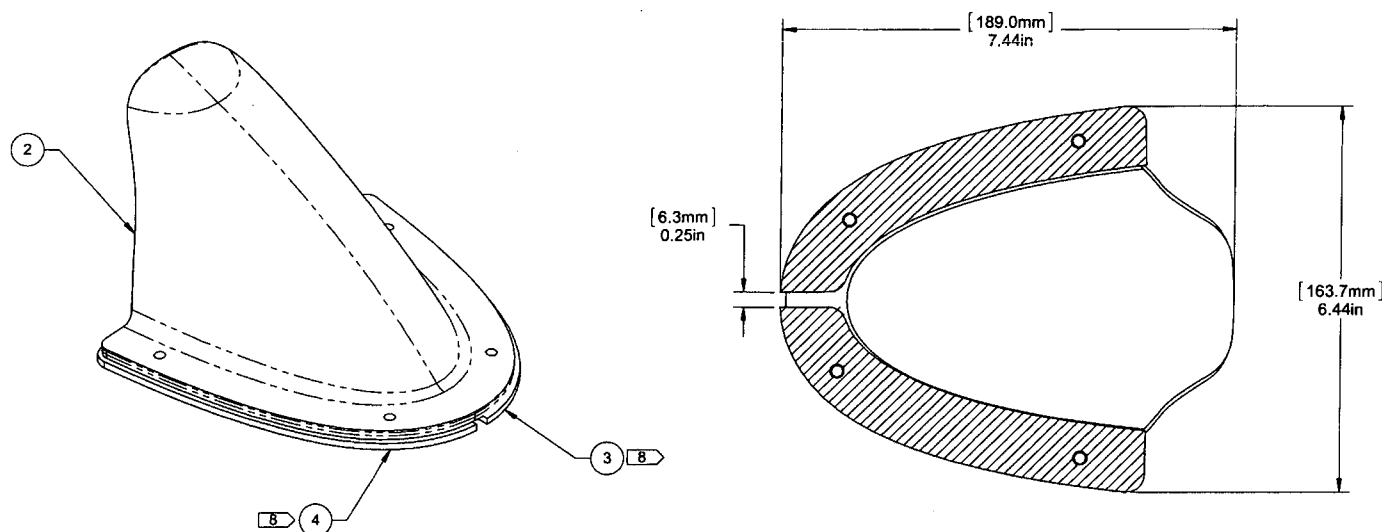
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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ITEM	QTY -043	P/N	DESCRIPTION
1	X	D4857-043	WIPER DEFLECTOR ASSEMBLY, LH
2	1	D4857-3	WIPER DEFLECTOR LH
3	1	D5117-1	GASKET
4	1	D5117-3	GASKET



D4857-043 WIPER DEFLECTOR ASSEMBLY, LH

RELEASED
2014-06-11

CL15103111
W10.130430

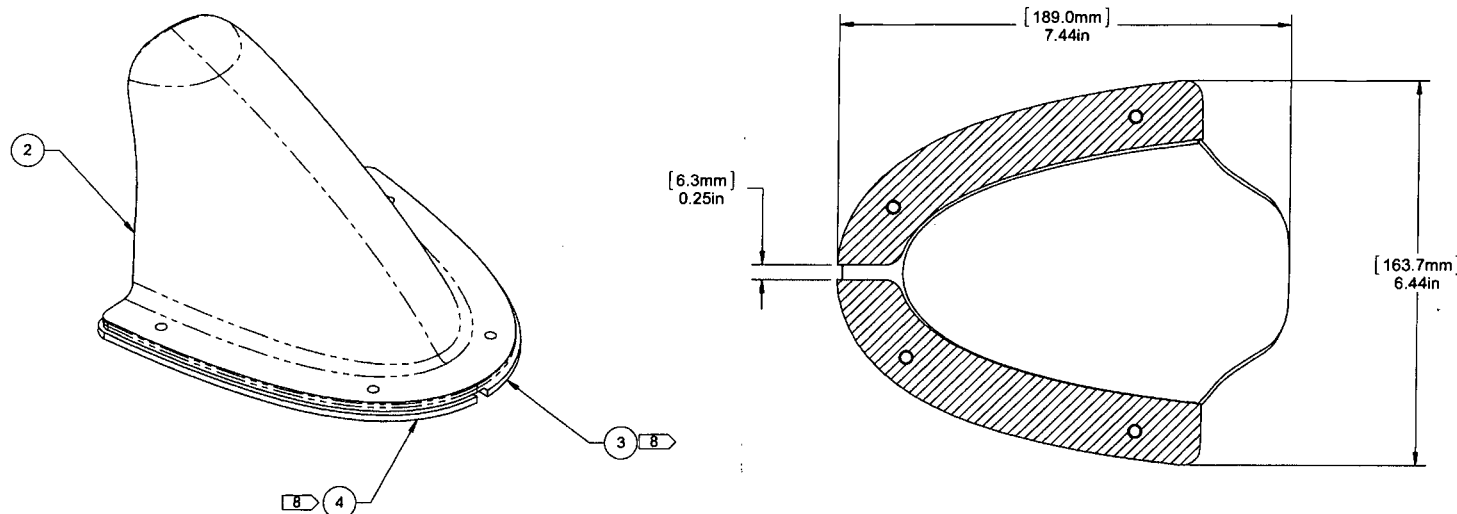
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-043, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
- 7) WEIGHT: 0.38 lbs (0.17 kg)
- 8) BOND D5117-1/-3 GASKET TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

E	REVISE NOTE 6) (ZN A8-1, A8-2, A8-3); AND NOTE 8) (ZN A8-1, A8-2, A8-3)	AK	14.06.05
D	ADDED D4857-043 (ZN C7-1), D4857-044 (ZN C7-2), D4857-3 (ZN C7-4), D4857-4 (ZN C7-5) AND D4857-M (ZN C7-6)	AK	14.05.13
C	ADDED 4 MOUNTING HOLES	DW	13.12.09
B	REVISED BOM, DRAWING VIEWS, NOTES	PB	13.08.13
A	NEW RELEASE	DB	13.05.23
REV.	DESCRIPTION	BY	DATE
DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 1 OF 7
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
DATE	14.06.05	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

APPROVED

ITEM	QTY -044	P/N	DESCRIPTION
1	X	D4857-044	WIPER DEFLECTOR ASSEMBLY, RH
2	1	D4857-4	WIPER DEFLECTOR RH
3	1	D5117-5	GASKET
4	1	D5117-7	GASKET



D4857-044 WIPER DEFLECTOR ASSEMBLY, RH

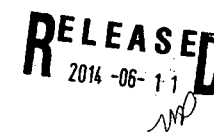
RELEASED
2014-06-11

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-044, REVISION, BATCH NUMBER, AND DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
- 7) WEIGHT: 0.38 lbs (0.17 kg)
- 8) BOND D5117-5/-7 GASKET TO EDGE OF PART USING DOW CORNING 736 ADHESIVE

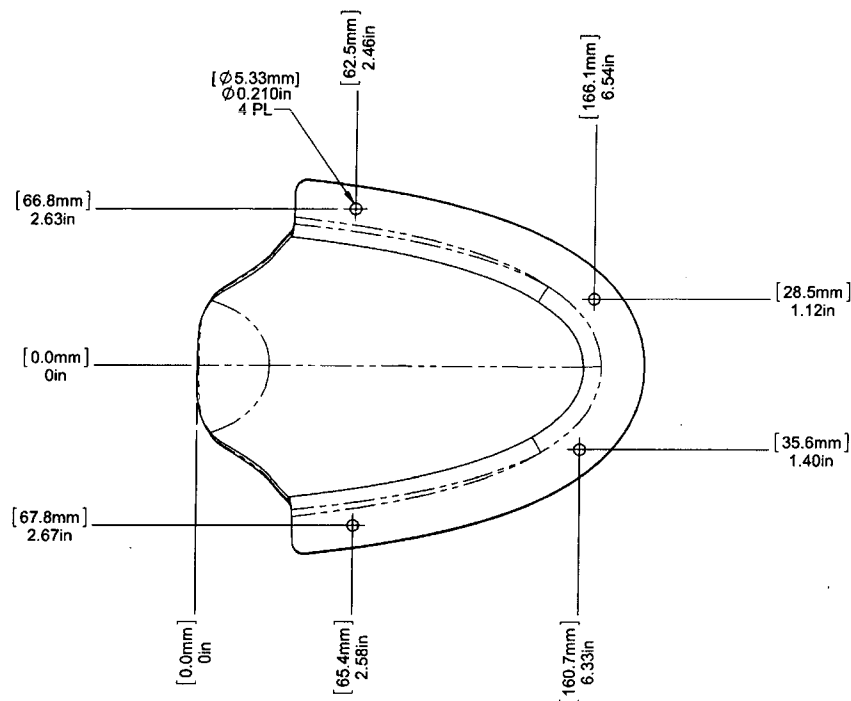
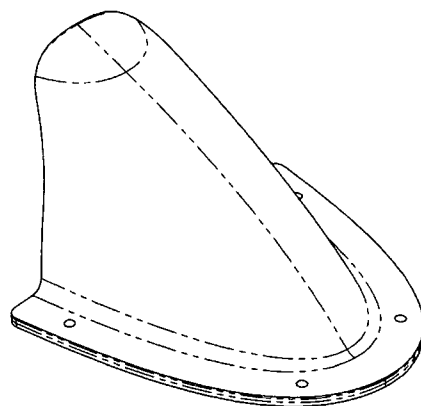
APPROVED

DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 2 OF 7
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
DATE	14.06.05	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



1) MATERIAL: MADE FROM D4857-M
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N D4857-1, REVISION, BATCH NUMBER, AND
DATE OF MANUFACTURE, AS PER QSI 044 METHOD 6.1
7) WEIGHT: 0.24 lbs (0.11 kg)
8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-1-e.IGES

APPROVED	DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	REV. E SHEET 3 OF 7
	DRAWN	RF		
	CHECKED	VS	DRAWING NO.	
	MFG. APPR.	JFS	D4857	
	APPROVED	MP	TITLE	SCALE
	DE APPR.	DS	WIPER DEFLECTOR	NTS
	DATE	14.06.05 COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONCEPTION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMINGLED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.		



D4857-3 WIPER DEFLECTOR, LH

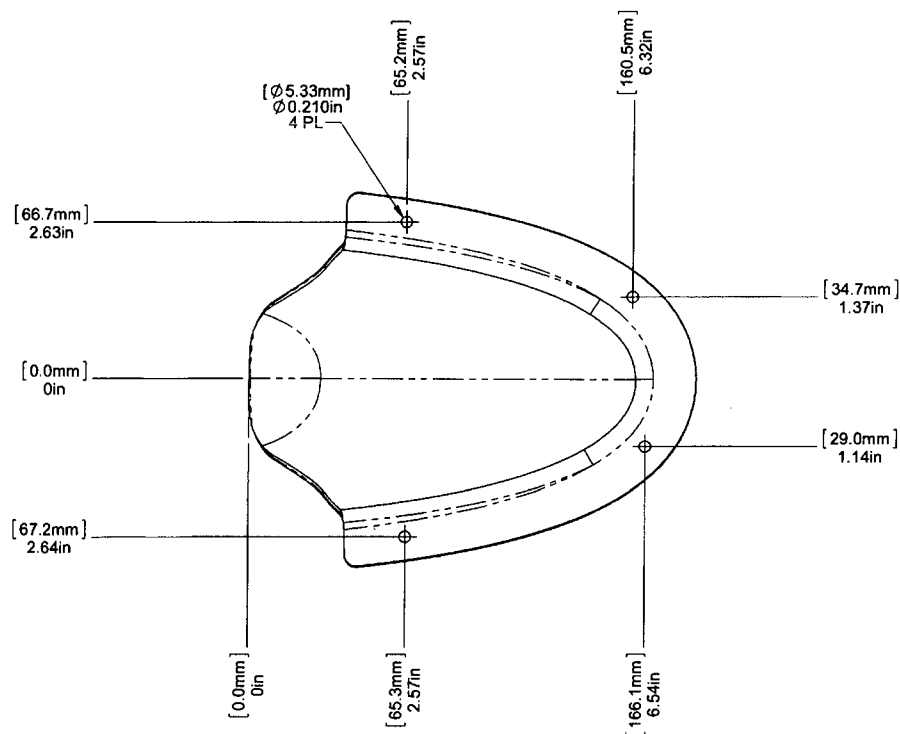
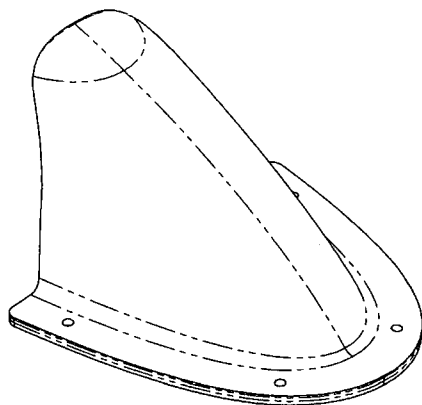
RELEASED
2014-06-11

NOTES:

- 1) MATERIAL: MADE FROM D4857-M
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs (0.11 kg)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-3-e.IGES

APPROVED

DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 4 OF 7
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DE APPR.	DS	WIPER DEFLECTOR	NTS
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D4857-4 WIPER DEFLECTOR, RH

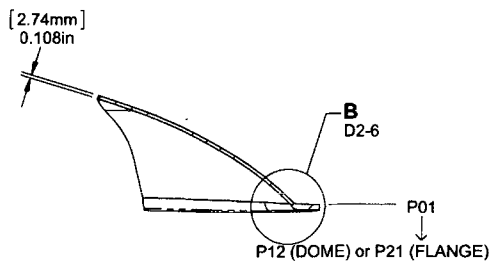
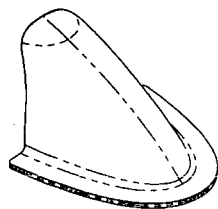
RELEASED
2014-06-11
m

NOTES:

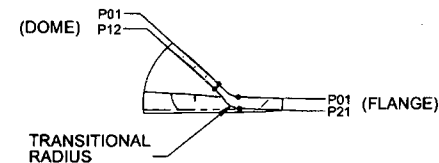
- 1) MATERIAL: MADE FROM D4857-M
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs (0.11 kg)
- 8) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-4.e.IGES

APPROVED

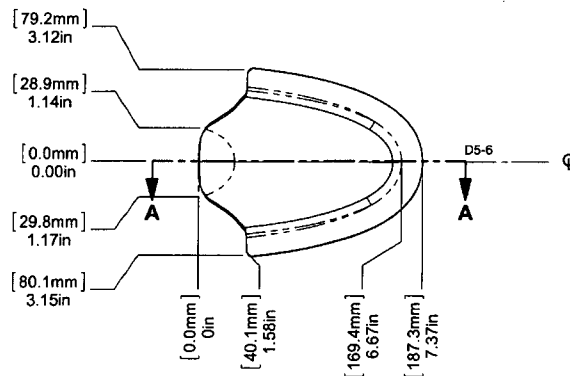
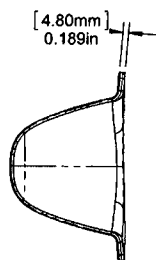
DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 5 OF 7
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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SECTION A-A
B5-6



DETAIL B
D5-6



D4857-M WIPER DEFLECTOR

NOTES:

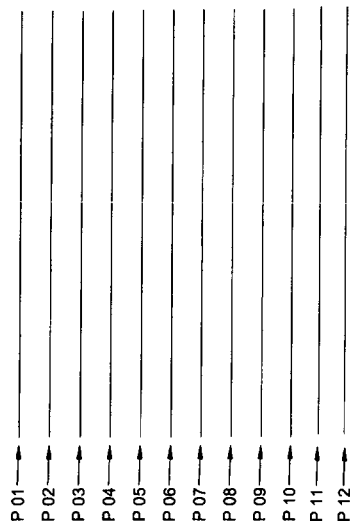
- 1) MATERIAL: KEVLAR #285/353 4H SATIN, EPOXY PREPREG, 250°F CURE, 40% R/C
- 2) MATERIAL: CARBON FIBER PREPREG, ALDILA PREPREG SYSTEM 3K2X2-FR250-204/40 T300,
- 3) MATERIAL: ALDILA #120 E-GLASS AR250 WITH 48% RC;
- 4) FINISH: PRIMER IAW MIL-P-85582, 2-7 MIL MAX,
- 5) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 6) UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- 7) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 8) IDENTIFICATION: N/A
- 9) WEIGHT: 0.24 lbs (0.11 kg)
- 10) PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-M-e.IGES
- 11) SEE PAGE 7 FOR LAYUP SCHEDULE. MANUFACTURE IAW MPP 145. CURE 250°F FOR 4 HOURS.

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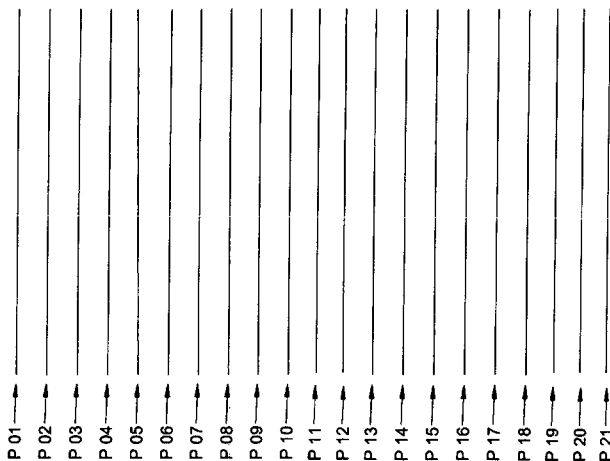
DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 6 OF 7
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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8 7 6 5 4 3 2 1



LAYUP OF LAYERS (DOME)

LAMINATE - .108in (12 LAYERS)			
PLY	WARP ANGLE	MATERIAL	THICKNESS
01	90	1	.008-.010
02	0	1	.008-.010
03	90	2	.008-.010
04	0	2	.008-.010
05	90	2	.008-.010
06	0	2	.008-.010
07	90	2	.008-.010
08	0	2	.008-.010
09	90	2	.008-.010
10	0	2	.008-.010
11	90	2	.008-.010
12	0	2	.008-.010



LAYUP OF LAYERS (FLANGE)

LAMINATE - .189in (21 LAYERS)			
PLY	WARP ANGLE	MATERIAL	THICKNESS
01	90	1	.008-.010
02	0	1	.008-.010
03	90	2	.008-.010
04	0	2	.008-.010
05	90	2	.008-.010
06	0	2	.008-.010
07	90	2	.008-.010
08	0	2	.008-.010
09	90	2	.008-.010
10	0	2	.008-.010
11	90	2	.008-.010
12	0	2	.008-.010
13	90	2	.008-.010
14	0	2	.008-.010
15	90	2	.008-.010
16	0	2	.008-.010
17	90	2	.008-.010
18	0	2	.008-.010
19	90	2	.008-.010
20	0	2	.008-.010
21	90	3	.005

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DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	JFS	D4857	SHEET 7 OF 7
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NTS
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8 7 6 5 4 3 2 1